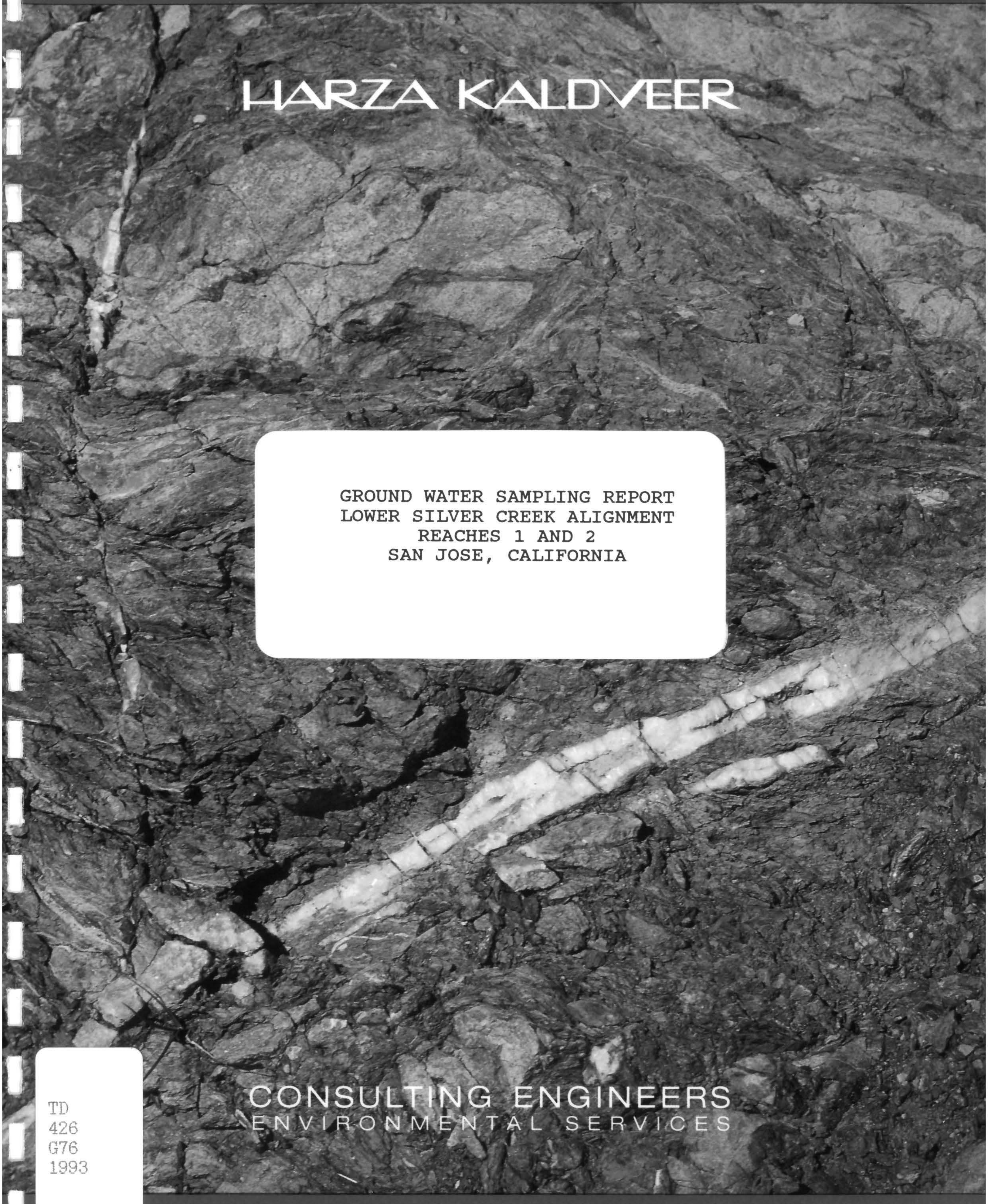


HARZA KALDVEER

GROUND WATER SAMPLING REPORT
LOWER SILVER CREEK ALIGNMENT
REACHES 1 AND 2
SAN JOSE, CALIFORNIA

CONSULTING ENGINEERS
ENVIRONMENTAL SERVICES

TD
426
G76
1993

GROUND WATER SAMPLING REPORT
LOWER SILVER CREEK ALIGNMENT
REACHES 1 AND 2
SAN JOSE, CALIFORNIA

HARZA KALDVEER

HARZA KALDVEER *Consulting Engineers*

January 12, 1993
KE109-11-1210, 22533

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118-3686

Attention: Ms. Carol Presley

RE: GROUND WATER SAMPLING REPORT
LOWER SILVER CREEK PROJECT
REACHES 1 AND 2
SAN JOSE, CALIFORNIA

Ladies and Gentlemen:

In accordance with the contract agreement number A1403, we are pleased to submit this Ground Water Sampling Report for the Lower Silver Creek Project Reaches 1 and 2. Reaches 1 and 2 extend from McKee Road approximately one mile to Coyote Creek, in San Jose, California. The plan has been prepared in accordance District's "Guidelines for Investigation and Report Preparation".

We refer you to the text of this report for details. We thank you for the opportunity to be of service to you. If you have any questions regarding this report, please do not hesitate to call.

Very truly yours,

HARZA KALDVEER

Randy P. Rowley, R.G./R.E.A.
Senior Engineering Geologist/
Environmental Specialist

John R. Sutton, P.E./G.E.
Manager, Environmental/Hazardous
Waste Services
Associate

RPR/JRS:ms
Copies: Addressee (10)

425 Roland Way Oakland, California 94621
Tel: (510) 568-4001 Fax: (510) 568-2205

TD426 G76 1993 c.2

GROUND WATER SAMPLING REPORT

LOWER SILVER CREEK ALIGNMENT
REACHES 1 AND 2
SAN JOSE, CALIFORNIA

To
Santa Clara Valley Water District
57500 Almaden Expressway
San Jose, California

RANDY
P.
ROWLEY
NO. 4857

Randy P. Rowley
Registered Geologist No. 4857

JOHN R. SUTTON
LIC No. GE 812
EXP. 12/31/94

John R. Sutton
Civil Engineer No. 40324
Geotechnical Engineer No. 812

January, 1993

TABLE OF CONTENTS

Page No.

Letter of Transmittal

TITLE PAGE

TABLE OF CONTENTS

I. INTRODUCTION 1

II. GROUND WATER ELEVATION 2

III. GROUND WATER SAMPLING 2

IV. CHEMICAL ANALYSES 3
  A. Laboratory Procedures 3
  B. Analytical Results 3

V. CONCLUSIONS 3

VI. LIMITATIONS 3

TABLE 1 - ANALYTICAL RESULTS GROUND WATER
TABLE 2 - GROUND WATER ELEVATION DATA

FIGURE 1 - SITE VICINITY MAP
FIGURE 2 - SITE PLAN

APPENDIX A - WATER LEVEL MONITORING RECORD AND GROUND WATER SAMPLE LOGS
APPENDIX B - ANALYTICAL REPORTS

GROUND WATER SAMPLING REPORT
LOWER SILVER CREEK PROJECT
REACHES 1 AND 2
SAN JOSE, CALIFORNIA

I. INTRODUCTION

This report presents the results of the second round of ground water sampling of the five monitoring wells at the Lower Silver Creek Project. The project area extends from the confluence of Silver Creek and Coyote Creek to McKee Road in San Jose, California, as shown on the Site Vicinity Map, Figure 1. The approximate project site and monitoring well locations are shown on Figure 2. The ground water monitoring was performed in accordance with Harza Kaldveer's approved ground water sampling plan submitted to the Santa Clara Valley Water District November 20, 1992.

The scope of services provided during this investigation consisted of collecting and analyzing ground water samples from five onsite monitoring wells, calculating ground water elevations at the time of sampling and the presentation of the data in this report. Ground water samples from the monitoring wells constructed by Harza Kaldveer were previously sampled and chemically analyzed in July 1992. The chemical testing results of this and the previous ground water sampling rounds are presented in Table 1.

Harza Kaldveer previously conducted a Soil and Ground Water Quality Investigation for the site. The results of the investigation, including details of the previous round of quarterly ground water monitoring, are presented in our report titled, "Level II Environmental Investigation Report, Lower silver Creek Project, Reaches 1 and 2, San Jose, California", which will soon be released in final form.

II. GROUND WATER ELEVATION

Ground water elevations were measured in the five onsite monitoring wells by Harza Kaldveer personnel on November 30, 1992. An electronic well sounder was used in accordance with the methods and procedures detailed in the sampling plan. Table 2 lists the ground water elevation data collected during this and the previous ground water sampling rounds.

Ground water elevations were lower in Monitoring Wells MW-1, MW-2, MW-3, and MW-4 than the elevations measured during the previous sampling round. The ground water elevation in Well MW-5 was higher in elevation than was measured during the previous sampling round. The surveyed well top elevations, depth to water, and calculated water surface elevations were used to determine the ground water elevations presented on Table 1 and Figure 2. The water level monitoring records are included in Appendix A.

Because the wells are placed adjacent to the stream in a roughly linear arrangement, an accurate presentation of the ground water gradient has not been included. However, the ground water elevations measured in the wells during this quarter decrease in the downstream direction. This observation is consistent with the findings of the previous quarter of monitoring.

III. GROUND WATER SAMPLING

The ground water monitoring wells were sampled November 30, 1992. Ground water sampling was performed in accordance with the methods and procedures presented in the sampling plan. In general, the water samples from each well were collected after purging approximately five well casing volumes from each well using a teflon bailer. Water samples were decanted from the bailer into appropriate containers and delivered to the laboratory under chain-of-custody control. The bailers were thoroughly cleaned with a laboratory grade detergent prior to use to reduce the potential for cross-contamination. Field documentation of the sampling procedures and measurements were recorded on well sampling logs by Harza Kaldveer staff. The well sampling logs are attached to this report in Appendix A.

IV. CHEMICAL ANALYSES

A. Laboratory Procedures

Ground water samples were chemically analyzed by Pacific Environmental Laboratory (PEL) of San Francisco, California under their contract with the District. PEL is certified by the California Environmental Protection Agency for the analyses performed.

In accordance with the approved sampling plan water samples from the wells, including one duplicate sample from MW-3 (but submitted "blind") were analyzed for total petroleum hydrocarbons (TPH) as gasoline using EPA Method 5030, volatile organic compounds (VOC) using EPA Method 8240, and organochlorine pesticides and PCBs using EPA Method 8080. In addition, a travel blank was tested for VOC.

B. Analytical Results

No TPH as gasoline or diesel, VOC, organochlorine pesticides or PCBs were identified in any of the samples analyzed. The results of the laboratory test results are presented in Table 1. The laboratory analytical reports are attached in Appendix B.

V. CONCLUSIONS

No chemical compounds have been identified in the ground water samples at the site during the two quarters of ground water monitoring from the five onsite wells.

VI. LIMITATIONS

This report has been prepared in accordance with generally accepted geologic and environmental engineering practices. No other warranty, either expressed or implied as to the professional advice provided is made. The findings contained in this report are based on site conditions as they existed at the time of our investigation; and laboratory results from an outside analytical laboratory.

Changes in the information or data gained from any of these sources could result in changes in our conclusions or recommendations. If such changes do occur, we should be advised so that we can review or report in light of those changes.

TABLES

TABLE 1

ANALYTICAL RESULTS
GROUND WATER

CONSTITUENT AND SAMPLING DATE	MW-1	MW-2	MW-3	MW-4	MW-5	DUPLICATE	DUPLICATE	TRAVEL BLANK
TPH GASOLINE								
July, 1992 November, 1992	ND ND	ND ND	ND ND	ND ND	ND ND	ND(2) ND(3)	ND(4) NA	ND NA
TPH DIESEL								
July, 1992 November, 1992	ND ND	ND ND	ND ND	ND ND	ND ND	ND(2) ND(3)	ND(4) NA	ND NA
VOLATILE ORGANIC COMPOUNDS								
July, 1992 November, 1992	ND ND	ND ND	ND ND	ND ND	ND ND	ND(2) ND(3)	ND(4) NA	ND ND
PESTICIDES/PCBs								
July, 1992 November, 1992	ND ND	ND ND	ND ND	ND ND	ND ND	ND(2) ND(3)	ND(4) NA	ND NA

Notes:

(2), (3), (4) - Indicates well from which duplicate sample was collected.
NA - Not Analyzed
ND - Not detected at the laboratory limit of detection

TABLE 2

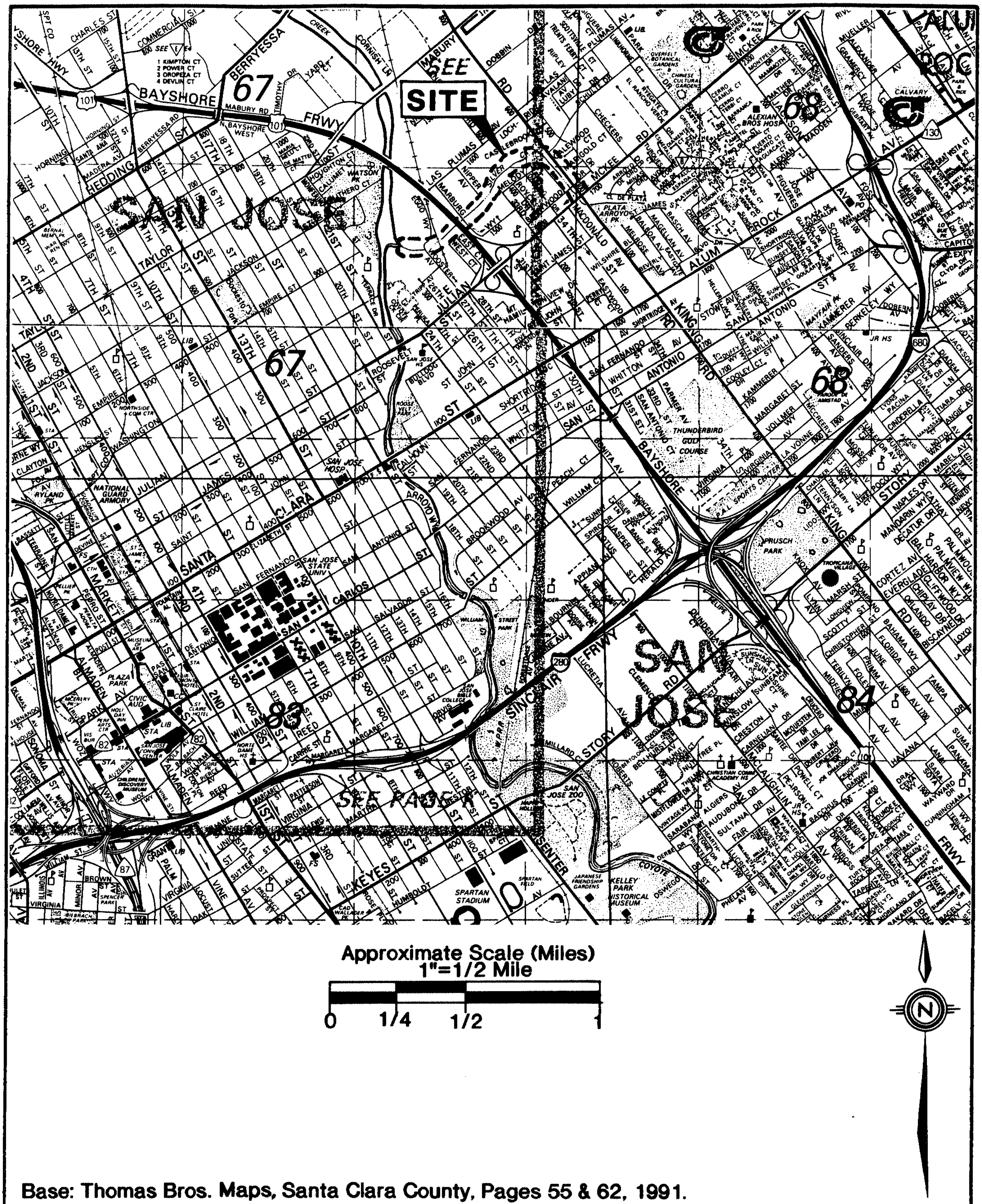
GROUND WATER ELEVATION DATA
(All Measurements in Feet)

Well Number	Well-top Elevation (2)	Depth to Water	Ground Water Elevation (MSL)
July 15, 1992			
MW-1	85.91	17.89	68.02
MW-2	86.68	18.15	68.53
MW-3	85.09	13.70	71.39
MW-4	85.18	12.58	72.60
MW-5	86.37	12.98	73.39
November 30, 1992			
MW-1	85.91	18.31	67.60
MW-2	86.68	18.26	68.42
MW-3	85.09	13.97	71.12
MW-4	85.18	13.12	72.06
MW-5	86.37	12.68	73.69

Note:

Well-top elevations surveyed by Santa Clara Valley Water District personnel and is based on horizontal datum NAD 1927 and vertical datum WGVD 1929 (Ground surface elevation is approximately 12 inches lower than the top of the surveyed well top elevation).

FIGURES



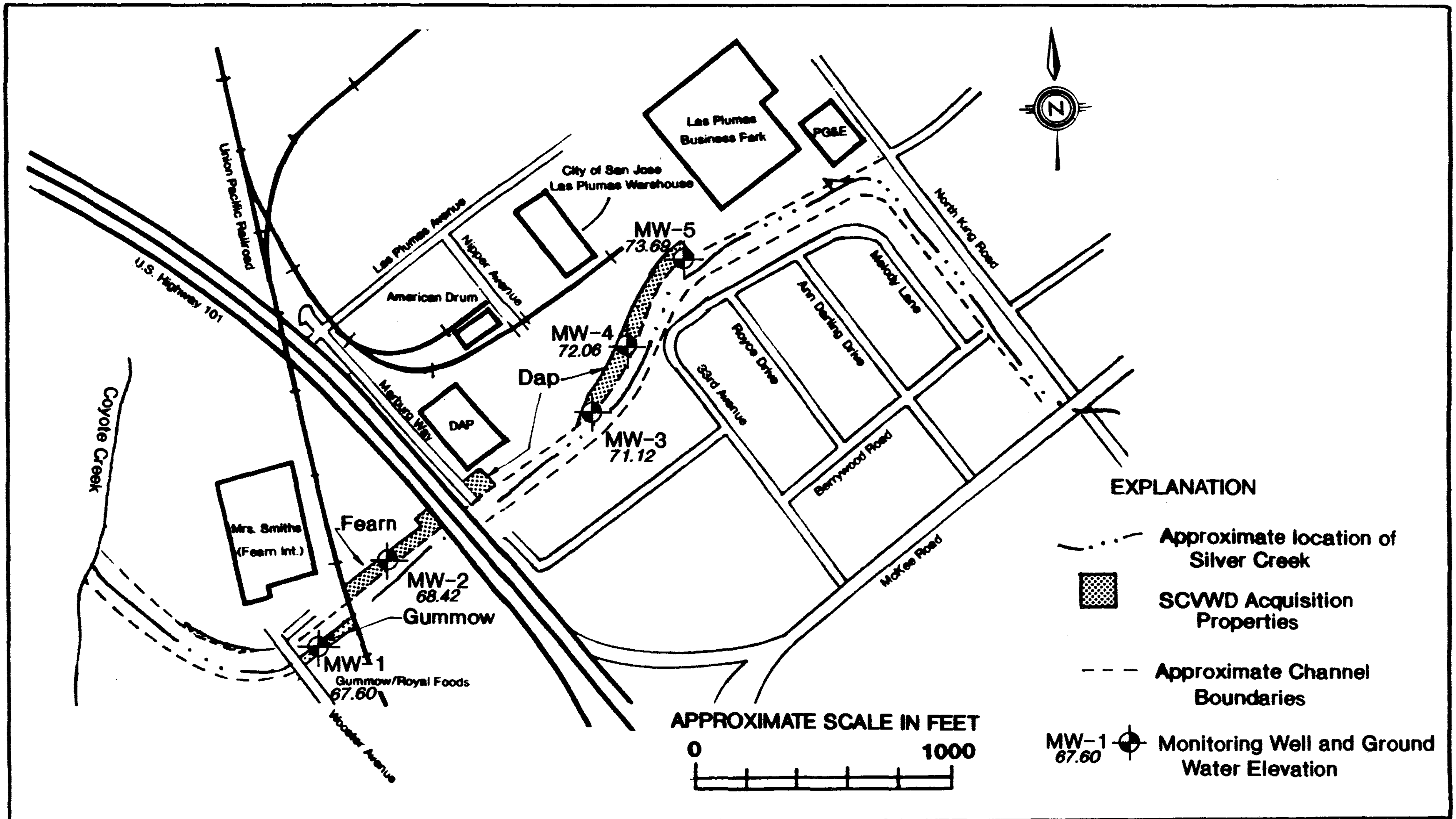
Base: Thomas Bros. Maps, Santa Clara County, Pages 55 & 62, 1991.

HARZA KALDVEER
Consulting Engineers

SITE VICINITY MAP

SILVER CREEK PHASE II
San Jose, California

PROJECT NO.	DATE	Figure 1
KE109-11-1210	January 1993	



Base adapted from U.S.G.S. Topographic Map, San Jose East Quadrangle, 1980 Revision.

HARZA KALDVEER
Consulting Engineers

SITE PLAN		
SILVER CREEK PHASE II San Jose, California		
PROJECT NO	DATE	Figure 2
KE109-11-1210	January 1993	

APPENDIX A
WATER LEVEL MONITORING RECORD
GROUND WATER SAMPLE LOGS

WATER LEVEL MONITORING RECORD

WELL NUMBER MW-1

Project No. KE109-11-1210 **Project Name** Lower Silver Creek Project **Page** 1 **of** 1

Date of Well Installation 7/8/92 **Datum Water Level Date** 7/15/92

Datum Water Depth (ft) 17.89 **Datum Water Level Elev. (ft)** 68.02

Top of Well Casing Elev. (ft) 85.91 ft. **Measuring Device** Solinst

Date	Time	Water Depth (ft.)	Water Elev. (ft.)	Water Level Change (ft.)	Measured By	Remarks
11/30/92	12:00	18.31	67.60	-0.42	JAF/TM	

WATER LEVEL MONITORING RECORD	WELL NUMBER MW-2

Project No. KE109-11-1210 Project Name Project Lower Silver Creek Page 1 of 1

Date of Well Installation 7/8/92 Datum Water Level Date 7/15/92

Datum Water Depth (ft) 18.15 Datum Water Level Elev. (ft) 68.52

Top of Well Casing Elev. (ft) 86.68 Measuring Device Solinst

Date	Time	Water Depth (ft.)	Water Elev. (ft.)	Water Level Change (ft.)	Measured By	Remarks
11/30/92	12:30	18.26	68.42	-0.10	JAF/TM	

WATER LEVEL MONITORING RECORD	WELL NUMBER MW-3

Project No. KE109-11-1210 Project Name Lower Silver Creek Project Page 1 of 1

Date of Well Installation 7/9/92 Datum Water Level Date 7/15/92

Datum Water Depth (ft) 13.70 Datum Water Level Elev. (ft) 71.39

Top of Well Casing Elev. (ft) 85.09 ft. Measuring Device Solinst

Date	Time	Water Depth (ft.)	Water Elev. (ft.)	Water Level Change (ft.)	Measured By	Remarks
11/30/92	12:50	13.97	71.12	-0.27	JAF/TM	

WATER LEVEL MONITORING RECORD

WELL NUMBER MW-4

Project No. KE109-11-1210 Project Name Lower Silver Creek Project Page 1 of 1

Date of Well Installation 7/9/92 Datum Water Level Date 7/15/92

Datum Water Depth (ft) 12.58 Datum Water Level Elev. (ft) 72.60

Top of Well Casing Elev. (ft) 85.18 ft. Measuring Device Solinst

Date	Time	Water Depth (ft.)	Water Elev. (ft.)	Water Level Change (ft.)	Measured By	Remarks
11/30/92	12:45	13.38	71.80	-0.80	JAF/TM	Water level rising
11/30/92	15:50	13.12	72.06	-0.54	JAF/TM	Prior to purging

WATER LEVEL MONITORING RECORD

WELL NUMBER MW-5

Project No. KE109-11-1210 **Project Name** Lower Silver Creek Project **Page** 1 **of** 1

Date of Well Installation 7/9/92 **Datum Water Level Date** 7/15/92

Datum Water Depth (ft) 12.98 **Datum Water Level Elev. (ft)** 73.39

Top of Well Casing Elev. (ft) 86.37 ft. **Measuring Device** Solinst

Date	Time	Water Depth (ft.)	Water Elev. (ft.)	Water Level Change (ft.)	Measured By	Remarks
11/30/92	12:40	12.68	73.69	+0.30	JAF/TM	

GROUND WATER SAMPLE LOG

Project Name: Lower Silver Creek Project Date: 11/30/92
Project Number: KE109-11-1210 Sampler: JAF/TM
Well Number: MW-1 Weather: Clear, Cool, 60's
Well Location:

Well Construction:

Date Completed: 7/8/92
Total Depth of Well: 29.48 Feet
Diameter: 2 Inch
Well Elevation & Reference: 85.91 Feet
Top of PVC Well Casing

Ground Water Levels:

Initial: 18.31 Feet
Final: 18.39 Feet
Reference Point: Top of PVC
Well Volume of Water: 1.9 Gallons

Sampling Equipment & Cleaning:

Sampler Type: Teflon Bailer
Method of Cleaning: See Below
Pump/Bailer Type: Teflon
Method of Cleaning: See Below
pH Meter: HYDAC

Conductivity Meter: HYDAC
Comments: Bailer washed in Liquinox solution and rinsed with D.I. water

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°C)	Spec. Conductance (umhos/cm)		Color/ Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
1335	Begin Purging Well							
1340		2.5	8.26	18.8	5.29		Tan/Cloudy	None
1345		5.0	7.94	18.8	4.76		Tan/None	None
1350		7.5	7.58	18.7	4.75		Tan/None	None
1355		10.0	7.51	18.7	4.77		Tan/None	None
1360	Sampled							

Total Discharge: 10 Gallons
Casing Volumes Removed: 5 Volumes
Method of Disposal: To Ground

Comments:

HARZA KALDVEER
Consulting Engineers

GROUND WATER SAMPLE LOG		
LOWER SILVER CREEK PROJECT San Jose, California		
Project No.	Date	Figure
KE109-11-1210	November, 1992	A-1

GROUND WATER SAMPLE LOG

Project Name: Lower Silver Creek Project Date: 11/30/92
Project Number: KE109-11-1210 Sampler: JAF/TM
Well Number: MW-2 Weather: Clear, cool, 60's
Well Location:

Well Construction:

Date Completed: 7/8/92
Total Depth of Well: 29.80Feet
Diameter: 2 Inch
Well Elevation & Reference: 86.68 Feet
Top of PVC Well Casing

Ground Water Levels:

Initial: 18.26 Feet
Final: 18.29 Feet
Reference Point: Top of PVC
Well Volume of Water: 2.0 Gallons

Sampling Equipment & Cleaning:

Sampler Type: Teflon Bailer
Method of Cleaning: See Below
Pump/Bailer Type: Teflon
Method of Cleaning: See Below
pH Meter: Hydac
Conductivity Meter: Hydac
Comments: Bailer washed in Liquinox solution and rinsed with D.I. water

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°C)	Spec. Conductance (umhos/cm)		Color/ Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
1410	Begin Purging Well							
1415		2.5	7.79	19.0		4.89	Tan/None	None
1420		5.0	7.62	18.9		4.66	Tan/None	None
1425		7.5	7.49	18.3		4.67	Tan/None	None
1430		10.0	7.45	18.4		4.67	Tan/None	None
1435	Sampled							

Total Discharge: 10 Gallons
Casing Volumes Removed: 5 Volumes
Method of Disposal: To Ground

Comments:

HARZA KALDVEER
Consulting Engineers

GROUND WATER SAMPLE LOG		
LOWER SILVER CREEK PROJECT San Jose, California		
Project No.	Date	Figure
KE109-11-1210	November, 1992	A-2

GROUND WATER SAMPLE LOG

Project Name: Lower Silver Creek Project Date: 11/30/92
Project Number: KE109-11-1210 Sampler: JAF/TM
Well Number: MW-3 Weather: Clear, cool, 60's
Well Location:

Well Construction:

Date Completed: 7/9/92
Total Depth of Well: 36.10 Feet
Diameter: 2 Inch
Well Elevation & Reference: 85.09 Feet
Top of PVC Well Casing

Sampling Equipment & Cleaning:

Sampler Type: Teflon Bailer
Method of Cleaning: See Below
Pump/Bailer Type: Teflon
Method of Cleaning: See Below
pH Meter: Hydac
Conductivity Meter: Hydac
Comments: Bailer washed in Liquinox solution and rinsed with D.I. water

Ground Water Levels:

Initial: 13.97 Feet
Final: 16.1 Feet
Reference Point: Top of PVC
Well Volume of Water: 3.8 Gallons

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°C)	Spec. Conductance (umhos/cm)		Color/ Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
1500	Begin Purging Well							
1503		4	8.04	19.2		4.89	Tan/None	None
1506		8	7.8	18.4		4.66	Tan/None	None
1508		12	7.90	18.2		4.67	Tan/None	None
1510		16	7.92	18.2		4.67	Tan/None	None
1512		20	7.94	17.9				
1515	Sampled							

Total Discharge: 20 Gallons
Casing Volumes Removed: 5 Volumes
Method of Disposal: To Ground

Comments:

HARZA KALDVEER *Consulting Engineers*	**GROUND WATER SAMPLE LOG**		
	LOWER SILVER CREEK PROJECT San Jose, California		
	Project No.	Date	Figure
	KE109-11-1210	November, 1992	A-3

GROUND WATER SAMPLE LOG

Project Name: Lower Silver Creek Project
Date: 11/30/92
Project Number: KE109-11-1210
Sampler: JAF/TM
Well Number: MW-4
Weather: Clear, cool, 60's
Well Location:

Well Construction:

Date Completed: 7/9/92
Total Depth of Well: 36.10 Feet
Diameter: 2 Inch
Well Elevation & Reference: 85.18 Feet Top of PVC Well Casing

Ground Water Levels:

Initial: 13.38 Feet
Final: 16.92 Feet
Reference Point: Top of PVC
Well Volume of Water: 3.9 Gallons

Sampling Equipment & Cleaning:

Sampler Type: Teflon Bailer
Method of Cleaning: See Below
Pump/Bailer Type: Teflon
Method of Cleaning: See Below
pH Meter: Hydac
Conductivity Meter: Hydac
Comments: Bailer washed in Liquinox solution and rinsed with D.I. water

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°C)	Spec. Conductance (umhos/cm)		Color/ Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
1550	Begin Purging Well							
1555		4	8.26	17.2	13.05		Tan/None	None
1600		8	7.91	17.5	12.66		Tan/None	None
1605		12	7.74	17.3	12.52		Tan/None	None
1610		16	7.66	17.1	12.91		Tan/None	None
1650	Sampled							

Total Discharge: 16 Gallons

Casing Volumes Removed: 4 Volumes
Method of Disposal: To Ground

Comments: Slow recovery well sampled MW-5 prior to allow for recovery

HARZA KALDVEER
Consulting Engineers

GROUND WATER SAMPLE LOG

LOWER SILVER CREEK PROJECT
San Jose, California

Project No.	Date	Figure
KE109-11-1210	November, 1992	A-4

GROUND WATER SAMPLE LOG

Project Name: Lower Silver Creek Project Date: 11/30/92
Project Number: KE109-11-1210 Sampler: JAF/TM
Well Number: MW-5 Weather: Clear, cool, 60's
Well Location:

Well Construction:

Date Completed: 7/9/92
Total Depth of Well: 36.65 Feet
Diameter: 2 Inch
Well Elevation & Reference: 86.37 Feet Top of PVC Well Casing

Ground Water Levels:

Initial: 12.68 Feet
Final: 16.85 Feet
Reference Point: Top of PVC
Well Volume of Water: 4.1 Gallons

Sampling Equipment & Cleaning:

Sampler Type: Teflon Bailer
Method of Cleaning: See Below
Pump/Bailer Type: Teflon
Method of Cleaning: See Below
pH Meter: Hydac
Conductivity Meter: Hydac
Comments: Bailer washed in Liquinox solution and rinsed with D.I. water

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°C)	Spec. Conductance (umhos/cm)		Color/ Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
1620	Begin Purging Well							
1625		4	8.07	17.4	5.30		Tan/None	None
1630		8	7.70	18.2	5.14		Tan/None	None
1635		12	7.63	18.0	4.74		Tan/None	None
1640		16	7.62	17.8	4.81		Tan/None	None
1645	Sampled							

Total Discharge: 16 Gallons
Casing Volumes Removed: 4 Volumes
Method of Disposal: To Ground

Comments: Slow recovery well sampled MW-5 prior to allow for recovery

HARZA KALDVEER
Consulting Engineers

GROUND WATER SAMPLE LOG		
LOWER SILVER CREEK PROJECT San Jose, California		
Project No.	Date	Figure
KE109-11-1210	November, 1992	A-5

APPENDIX B
ANALYTICAL REPORTS

1-2

Page 1 of 2

Lab Job #

DEC 31 1992

CHAIN-OF-CUSTODY RECORD

Project Number: KE1091-11-1210

Project Name: LOWER SILVER CREEK Proj.

Location: SAN JOSE

Sampler's Name (printed): JEFF FIEDLER & TACIA MILLER

KA Sample I.D. Number	Lab Sample I.D. Number	Date	Soil	Water	Number/Type of Container	Analytical Tests Method 8015 - TPH as Gasoline	Method 8015 - TPH as Diesel	Method 8240 - Volatile Organics	Method 8270 - Semi-Volatile Organics	Method 8010 - Halogenated Volatile Organics	Method 8080 - Organochlorine Pesticides & PCB's	Waste Oil -	Metals -	TPH GAS EPA 5030	VOC EPA 8240	PESTS & PCBS EPA 8080	TPH DIESEL EPA 3510	Remarks
MW-1	AB01944	11/30		X	3 x 40ml									X				UNPRESERVED
				X	3 x 40ml										X			copy of report to Jeff
				X	1x 1L											X		at Harza-Kaldveer -6d
				X	2 x 1L												X	
MW-2	AB01945			X	3 x 40ml									X				
				X	3 x 40ml										X			
				X	1 x 1L											X		
				X	2 x 1L												X	
MW-3	AB01946			X	3 x 40ml									X				R-1, R-5
				X	3 x 40ml										X			
				X	1 x 1L											X		
				X	2 x 1L												X	
MW-4	AB01947			X	3 x 40ml									X				
				X	3 x 40ml										X			
				X	1 x 1L											X		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	12/1/92 1145	JACKS DELIVERY Eric Lucas
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	12/1/92 1220	

Ship To: PACIFIC ENVIRONMENTAL LAB

Attention: BILL SVOBODA

Phone No:

Requested Turnaround Time: NORMAL

Kaldveer Assoc. Contact: JEFF FIEDLER

Remarks: SECOND CONTACT: CAROL PRESLEY

Please address correspondence and return cooler # ________ to:

Kaldveer Associates, Inc.
425 Roland Way
Oakland, California 94621
(415) 568-4001

Kaldveer Associates
Geoscience Consultants
A California Corporation

Polly, SARA, Chris, LYNN, BILL, ED

Page 2 of 2

Lab Job # ________

CHAIN-OF-CUSTODY RECORD

Project Number: KE109-11-1210

Project Name: LOWER SILVER CREEK

Location: SAN JOSE

Sampler's Name (printed): JEFF FIEDLER & TACIA MILLER

KA Sample I.D. Number	Lab Sample I.D. Number	Date	Soil	Water	Number/Type of Container	Analytical Tests Method 8015 - TPH as Gasoline	Method 8015 - TPH as Diesel	Method 8240 - Volatile Organics	Method 8270 - Semi - Volatile Organics	Method 8010 - Halogenated Volatile Organics	Method 8080 - Organochlorine Pesticides&PCB's	Waste Oil -	Metals -	TPH GAS-EPA 5030	VOC-EPA 8240	PESTS & PCBS EPA 8080	TPH DIESEL EPA 3550	Remarks
MW-4	AB01947	11/30		X	2 X 1L												X	UNPRESERVED copy of
MW-5	AB01948	11/30		X	3 X 40ml									X				reports to Jeff
				X	3 X 40ml										X			at Harza-Kaldveer.
				X	1 x 1L											X		-BS.
				X	2 x 1L												X	
3D	AB01949			X	3 x 40ml									X				
				X	3 x 40ml										X			R-1, R-5
				X	1 x 1L											X		
				X	2 X 1L												X	
TB	AB01950	11/30		X	2 x 40ml										X			

Relinquished by: (Signature)	Date/Time		Received by: (Signature)
Jeff Fiedler	12/1/92	1145	JACKS DELIVERY Eric Lucas

Relinquished by: (Signature)	Date/Time		Received by: (Signature)

Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)
	12/1/92	1220	

Ship To: PACIFIC ENVIRONMENTAL LAB

Attention: BILL SVOBODA

Phone No: ~~(510) 568-4001~~

Requested Turnaround Time: NORMAL

Kaldveer Assoc. Contact: JEFF FIEDLER

Please address correspondence and return cooler # ________ to:

Kaldveer Associates, Inc.
425 Roland Way
Oakland, California 94621
(415) 568-4001

Kaldveer Associates
Geoscience Consultants
A California Corporation

Remarks: SCVWD CONTACT: CAROL PRESLEY

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01944
Sample I.D.:	MW-1
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/03/92
Date Analyzed:	12/04-07/92
Analytical Method:	Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Quality Control Page
Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01944 (matrix spike)
Sample I.D.:	MW-1
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/03/92
Date Analyzed:	12/04-07/92
Analytical Method:	Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	Recovery 108%	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	Recovery 102%	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Quality Control Page
Proj. No. KE109-11-1210

Source: Lower Silver Creek (San Jose)
Lab. No.: AB01944 (matrix spike dup.)
Sample I.D.: MW-1
Matrix: Water
Depth: --
Date Collected: 11/30/92
Time Collected: --
Collected by: Kaldveer Associates
Date Extracted: 12/03/92
Date Analyzed: 12/04-07/92
Analytical Method: Calif. DHS LUFT Manual

Analysis	Units	Analytical Results	Det. Lim.
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	Recovery 98%	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	Recovery 89%	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source: Lower Silver Creek (San Jose)
Lab. No.: AB01945
Sample I.D.: MW-2
Matrix: Water
Depth: --
Date Collected: 11/30/92
Time Collected: --
Collected by: Kaldveer Associates
Date Extracted: 12/03/92
Date Analyzed: 12/04-07/92
Analytical Method: Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source: Lower Silver Creek (San Jose)
Lab. No.: AB01946
Sample I.D.: MW-3
Matrix: Water
Depth: --
Date Collected: 11/30/92
Time Collected: --
Collected by: Kaldveer Associates
Date Extracted: 12/03/92
Date Analyzed: 12/04-07/92
Analytical Method: Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01947
Sample I.D.:	MW-4
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/03/92
Date Analyzed:	12/04-07/92
Analytical Method:	Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01948
Sample I.D.:	MW-5
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/03/92
Date Analyzed:	12/04-07/92
Analytical Method:	Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01949
Sample I.D.:	3D
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/03/92
Date Analyzed:	12/04-07/92
Analytical Method:	Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05	0.05

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received --
Reported 12/16/92

Quality Control Page
Proj. No. KE109-11-1210

Source:	--
Lab. No.:	Method Blank and Spikes
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	12/03/92
Date Analyzed:	12/04-07/92
Analytical Method:	Calif. DHS LUFT Manual

Analysis	**Units**	**Analytical Results**	**Det. Lim.**
Volatile Petroleum Hydrocarbons (1) (as gasoline)	mg/L	<0.05 Spk. Rec. 101%[1]	0.05
Semivolatile Petroleum Hydrocarbons (2) (as diesel)	mg/L	<0.05 Spk. Recs. 77%[1] and 82%[2]	0.05

---

[1] Laboratory control sample spike recovery.
[2] Laboratory control sample spike recovery (dup.).

Comments: Gas chromatographic analysis using flame ionization detection (LUFT Manual procedure, "Modified 8015"). Reported in milligrams per liter.
(1) By purge and trap, quantitated using gasoline response factor.
(2) Sample was prepared by EPA Method 3510 (Sonication), followed by concentration; quantitated using diesel response factor.

Analyst Sara Woolley

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01944
Sample I.D.:	MW-1
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/03/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung Manager Valerie

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01945
Sample I.D.:	MW-2
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/03/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro- 1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01947
Sample I.D.:	MW-4
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/03/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro- 1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01948
Sample I.D.:	MW-5
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/03/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01950
Sample I.D.:	TB
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/03/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

22533

Comments: Reported in micrograms per liter.

Analyst Polly Cheung
Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received --
Reported 12/16/92

Quality Control Page
Proj. No. KE109-11-1210

Source: --
Lab. No.: Method Blank
Sample I.D.: Reagent Water
Matrix: Water
Depth: --
Date Collected: --
Time Collected: --
Collected by: PEL
Date Extracted: --
Date Analyzed: 12/03/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

22533

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District	Received ---
Attention	Ms. Carol Presley	Reported 12/16/92
Address	5750 Almaden Expressway	Quality Control Page
	San Jose, CA 95118	Proj. No. KE109-11-1210

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	97	94	86
AB01944	Water	99	101	91
AB01945	Water	99	95	86
AB01947	Water	106	95	87
AB01948	Water	109	105	100
AB01950	Water	102	96	93

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

92593

Comments: Analysis by U.S. EPA Method 8240.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01946
Sample I.D.:	MW-3
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/04/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01949
Sample I.D.:	3D
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	--
Date Analyzed:	12/04/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received --
Reported 12/16/92

Quality Control Page
Proj. No. KE109-11-1210

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	12/04/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethylene	<5	5	toluene	<5	5
chloroform	<5	5	chlorobenzene	<5	5
1,2-dichloroethane	<5	5	ethylbenzene	<5	5
1,1,1-trichloroethane	<5	5	1-2,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-3,dichlorobenzene	<5	5
bromodichloromethane	<5	5	1-4,dichlorobenzene	<5	5
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District	Received	---
Attention	Ms. Carol Presley	Reported	12/16/92
Address	5750 Almaden Expressway	Quality Control Page	
	San Jose, CA 95118	Proj. No.	KE109-11-1210

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	106	99	95
AB01946	Water	106	103	99
AB01949	Water	103	101	96

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 8240.

Analyst Polly Cheung

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01944
Sample I.D.:	MW-1
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/01/92
Date Analyzed:	12/10/92
EPA Method:	8080

Analysis	Units	Analytical Results	Det.Lim.
alpha-BHC	ug/L	<0.025	0.025
gamma-BHC (Lindane)	ug/L	<0.025	0.025
beta-BHC	ug/L	<0.025	0.025
Heptachlor	ug/L	<0.025	0.025
delta-BHC	ug/L	<0.025	0.025
Aldrin	ug/L	<0.025	0.025
Heptachlor epoxide	ug/L	<0.025	0.025
Endosulfan I	ug/L	<0.035	0.035
p,p-DDE	ug/L	<0.025	0.025
Dieldrin	ug/L	<0.025	0.025
Endrin	ug/L	<0.025	0.025
p,p-DDD (TDE)	ug/L	<0.025	0.025
Endosulfan II	ug/L	<0.025	0.025
p,p-DDT	ug/L	<0.025	0.025
Endrin aldehyde	ug/L	<0.025	0.025
Endosulfan sulfate	ug/L	<0.025	0.025
Methoxychlor	ug/L	<0.025	0.025
Toxaphene	ug/L	<0.25	0.25
Chlordane	ug/L	<0.05	0.05
PCBs	ug/L	<0.1	0.1

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01945
Sample I.D.:	MW-2
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/01/92
Date Analyzed:	12/10/92
EPA Method:	8080

Analysis	**Units**	**Analytical Results**	**Det.Lim.**
alpha-BHC	ug/L	<0.025	0.025
gamma-BHC (Lindane)	ug/L	<0.025	0.025
beta-BHC	ug/L	<0.025	0.025
Heptachlor	ug/L	<0.025	0.025
delta-BHC	ug/L	<0.025	0.025
Aldrin	ug/L	<0.025	0.025
Heptachlor epoxide	ug/L	<0.025	0.025
Endosulfan I	ug/L	<0.035	0.035
p,p-DDE	ug/L	<0.025	0.025
Dieldrin	ug/L	<0.025	0.025
Endrin	ug/L	<0.025	0.025
p,p-DDD (TDE)	ug/L	<0.025	0.025
Endosulfan II	ug/L	<0.025	0.025
p,p-DDT	ug/L	<0.025	0.025
Endrin aldehyde	ug/L	<0.025	0.025
Endosulfan sulfate	ug/L	<0.025	0.025
Methoxychlor	ug/L	<0.025	0.025
Toxaphene	ug/L	<0.25	0.25
Chlordane	ug/L	<0.05	0.05
PCBs	ug/L	<0.1	0.1

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine

Manager Valerie Gray

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01946
Sample I.D.:	MW-3
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/01/92
Date Analyzed:	12/10/92
EPA Method:	8080

Analysis	**Units**	**Analytical Results**	**Det.Lim.**
alpha-BHC	ug/L	<0.025	0.025
gamma-BHC (Lindane)	ug/L	<0.025	0.025
beta-BHC	ug/L	<0.025	0.025
Heptachlor	ug/L	<0.025	0.025
delta-BHC	ug/L	<0.025	0.025
Aldrin	ug/L	<0.025	0.025
Heptachlor epoxide	ug/L	<0.025	0.025
Endosulfan I	ug/L	<0.035	0.035
p,p-DDE	ug/L	<0.025	0.025
Dieldrin	ug/L	<0.025	0.025
Endrin	ug/L	<0.025	0.025
p,p-DDD (TDE)	ug/L	<0.025	0.025
Endosulfan II	ug/L	<0.025	0.025
p,p-DDT	ug/L	<0.025	0.025
Endrin aldehyde	ug/L	<0.025	0.025
Endosulfan sulfate	ug/L	<0.025	0.025
Methoxychlor	ug/L	<0.025	0.025
Toxaphene	ug/L	<0.25	0.25
Chlordane	ug/L	<0.05	0.05
PCBs	ug/L	<0.1	0.1

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source: Lower Silver Creek (San Jose)
Lab. No.: AB01947
Sample I.D.: MW-4
Matrix: Water
Depth: --
Date Collected: 11/30/92
Time Collected: --
Collected by: Kaldveer Associates
Date Extracted: 12/01/92
Date Analyzed: 12/10/92
EPA Method: 8080

Analysis	**Units**	**Analytical Results**	**Det.Lim.**
alpha-BHC	ug/L	<0.025	0.025
gamma-BHC (Lindane)	ug/L	<0.025	0.025
beta-BHC	ug/L	<0.025	0.025
Heptachlor	ug/L	<0.025	0.025
delta-BHC	ug/L	<0.025	0.025
Aldrin	ug/L	<0.025	0.025
Heptachlor epoxide	ug/L	<0.025	0.025
Endosulfan I	ug/L	<0.035	0.035
p,p-DDE	ug/L	<0.025	0.025
Dieldrin	ug/L	<0.025	0.025
Endrin	ug/L	<0.025	0.025
p,p-DDD (TDE)	ug/L	<0.025	0.025
Endosulfan II	ug/L	<0.025	0.025
p,p-DDT	ug/L	<0.025	0.025
Endrin aldehyde	ug/L	<0.025	0.025
Endosulfan sulfate	ug/L	<0.025	0.025
Methoxychlor	ug/L	<0.025	0.025
Toxaphene	ug/L	<0.25	0.25
Chlordane	ug/L	<0.05	0.05
PCBs	ug/L	<0.1	0.1

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01948
Sample I.D.:	MW-5
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/01/92
Date Analyzed:	12/10/92
EPA Method:	8080

Analysis	**Units**	**Analytical Results**	**Det.Lim.**
alpha-BHC	ug/L	<0.025	0.025
gamma-BHC (Lindane)	ug/L	<0.025	0.025
beta-BHC	ug/L	<0.025	0.025
Heptachlor	ug/L	<0.025	0.025
delta-BHC	ug/L	<0.025	0.025
Aldrin	ug/L	<0.025	0.025
Heptachlor epoxide	ug/L	<0.025	0.025
Endosulfan I	ug/L	<0.035	0.035
p,p-DDE	ug/L	<0.025	0.025
Dieldrin	ug/L	<0.025	0.025
Endrin	ug/L	<0.025	0.025
p,p-DDD (TDE)	ug/L	<0.025	0.025
Endosulfan II	ug/L	<0.025	0.025
p,p-DDT	ug/L	<0.025	0.025
Endrin aldehyde	ug/L	<0.025	0.025
Endosulfan sulfate	ug/L	<0.025	0.025
Methoxychlor	ug/L	<0.025	0.025
Toxaphene	ug/L	<0.25	0.25
Chlordane	ug/L	<0.05	0.05
PCBs	ug/L	<0.1	0.1

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine

Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Santa Clara Valley Water District
Attention Ms. Carol Presley
Address 5750 Almaden Expressway
San Jose, CA 95118

Received 12/01/92
Reported 12/16/92

Proj. No. KE109-11-1210

Source:	Lower Silver Creek (San Jose)
Lab. No.:	AB01949
Sample I.D.:	3D
Matrix:	Water
Depth:	--
Date Collected:	11/30/92
Time Collected:	--
Collected by:	Kaldveer Associates
Date Extracted:	12/01/92
Date Analyzed:	12/10/92
EPA Method:	8080

Analysis	**Units**	**Analytical Results**	**Det.Lim.**
alpha-BHC	ug/L	<0.025	0.025
gamma-BHC (Lindane)	ug/L	<0.025	0.025
beta-BHC	ug/L	<0.025	0.025
Heptachlor	ug/L	<0.025	0.025
delta-BHC	ug/L	<0.025	0.025
Aldrin	ug/L	<0.025	0.025
Heptachlor epoxide	ug/L	<0.025	0.025
Endosulfan I	ug/L	<0.035	0.035
p,p-DDE	ug/L	<0.025	0.025
Dieldrin	ug/L	<0.025	0.025
Endrin	ug/L	<0.025	0.025
p,p-DDD (TDE)	ug/L	<0.025	0.025
Endosulfan II	ug/L	<0.025	0.025
p,p-DDT	ug/L	<0.025	0.025
Endrin aldehyde	ug/L	<0.025	0.025
Endosulfan sulfate	ug/L	<0.025	0.025
Methoxychlor	ug/L	<0.025	0.025
Toxaphene	ug/L	<0.25	0.25
Chlordane	ug/L	<0.05	0.05
PCBs	ug/L	<0.1	0.1

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine

Manager Valerie

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Santa Clara Valley Water District
Attention	Ms. Carol Presley
Address	5750 Almaden Expressway San Jose, CA 95118

Received --
Reported 12/16/92

Quality Control Page
Proj. No. KE109-11-1210

Source:	--
Lab. No.:	Method Blank and Spikes
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	12/01/92
Date Analyzed:	12/10/92
EPA Method:	8080

Analysis	**Units**	**Analytical Results**		**Det.Lim.**
alpha-BHC	ug/L	<0.025		0.025
gamma-BHC (Lindane)	ug/L	<0.025	Spk. Recs. 71%[1] and 81%[2]	0.025
beta-BHC	ug/L	<0.025		0.025
Heptachlor	ug/L	<0.025	Spk. Recs. 69%[1] and 77%[2]	0.025
delta-BHC	ug/L	<0.025		0.025
Aldrin	ug/L	<0.025	Spk. Recs. 71%[1] and 79%[2]	0.025
Heptachlor epoxide	ug/L	<0.025		0.025
Endosulfan I	ug/L	<0.035		0.035
p,p-DDE	ug/L	<0.025		0.025
Dieldrin	ug/L	<0.025	Spk. Recs. 59%[1] and 73%[2]	0.025
Endrin	ug/L	<0.025	Spk. Recs. 67%[1] and 86%[2]	0.025
p,p-DDD (TDE)	ug/L	<0.025		0.025
Endosulfan II	ug/L	<0.025		0.025
p,p-DDT	ug/L	<0.025	Spk. Recs. 60%[1] and 78%[2]	0.025
Endrin aldehyde	ug/L	<0.025		0.025
Endosulfan sulfate	ug/L	<0.025		0.025
Methoxychlor	ug/L	<0.025		0.025
Toxaphene	ug/L	<0.25		0.25
Chlordane	ug/L	<0.05		0.05
PCBs	ug/L	<0.1		0.1

[1] Laboratory control sample spike recovery.
[2] Laboratory control sample spike recovery (dup.).

Comments: Results reported in micrograms per liter.

Analyst Lynn Perrine Manager

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

HARZA KALDVEER
425 Roland Way
OAKLAND, CALIFORNIA 94621

(510) 568-4001

DATE 11/30/ 92	JOB NO. KE109-11-1210
PROJECT LOWER SILVER CREEK PROJECT	
LOCATION SAN JOSE CALIFORNIA	
CONTRACTOR	OWNER
WEATHER Clear, cool, 60s	TEMP. °at AM °at PM
PRESENT AT SITE JAF/TM	

TO

Date 11/30/92

Hours Charged To Project **Nuclear Density Tests**

THE FOLLOWING WAS NOTED:

> PICKED UP EQUIPMENT FROM STORAGE @ 1000. ARRIVED AT SITE 1130. TOOK WATER DEPTH READINGS OF ALL WELLS. CALIBRATED pH METER. STARTED DECON. BEGAN SAMPLING, MW-1, etc. & TOOK FINAL WATER DEPTH MEASUREMENTS, SEE LOGS. FINISHED SAMPLING AT 1700. LOCKED WELLS AND GATES.

>

pH METER CALIBRATION NOTE:

METER READ 6.99 IN 7.0 BUFFER SOL'N & 9.36 IN 10.0 BUFFER SOL'N.

FIELD REPORT

COPIES TO

SIGNED Tara C. Miller

PRODUCT 241 NEBS Inc., Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380